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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/757,610	01/14/2004	Koji Noguchi	09792909-5758	4808	
26263 7	590 12/13/2006		EXAMINER		
SONNENSCI	HEIN NATH & ROSEN	VU, F	VU, PHU		
P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER	
			2871		
•			DATE MAILED: 12/13/2006	DATE MAILED: 12/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

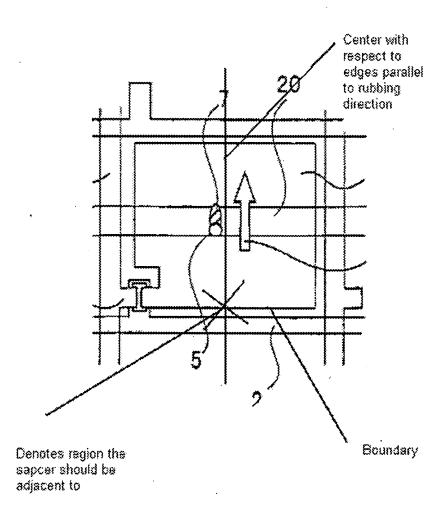
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available used the provided of 37 CFR 1.13(6). In no event, however, may a raphy be timely filed Extensions of time may be available used the provided of 37 CFR 1.13(6). In no event, however, may a raphy be timely filed Extensions of the provided provided and the provided		Application No.	Applicant(s)					
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Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. ***after SIX (6) MONTTS* from the mailing date of this communication. ***If the period for reply specified above, the maximum dishlatory paid will apply and will apply 60 days will be considered limely. **If No period for reply specified above, the maximum dishlatory paid will apply and will apply 61 days will be considered limely. **If No period for reply specified above, the maximum dishlatory paid will apply and will apply 61 days will be considered limely. **If No period for reply specified above, the maximum dishlatory paid will apply and will apply 61 days will be considered limely. **If No period for reply specified above, the maximum dishlatory paid will apply and will apply 61 days will be considered limely. **If No period for reply specified above, the maximum dishlatory paid will apply and will apply 61 days will be considered limely. **If No period for reply specified disher maximum dishlatory paid will apply 61 days will be considered limely. **Any reply received by the Office will the maximum dishlatory paid will apply 61 days will be considered limely. **Any reply received by the Office will the maximum dishlatory paid will apply 61 days will be considered limely. **Any reply received by the Office will be considered limely. **The Application is paid of the application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** **Application of Claims** **Application of Claims** **Application of Pages** **Priority under 35 U.S.C. \$ 119 **If the drawing(s) filed on is/are: a) accepted or b)			1					
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DETAILED ACTION

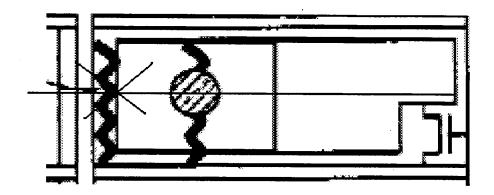
Response to Arguments

Applicant's arguments filed 7/18/2006 have been fully considered but they are not persuasive. Regarding claim 1, the claim was amended to include the limitation of "the central position being adjacent to a starting position of the rubbing direction and to a boundary not parallel to the rubbing direction."



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The X denotes the region the protrusion should be adjacent to. In view of these figures than if application's protrusion is considered adjacent "the central position being adjacent to a starting position of the rubbing direction and to a boundary not parallel to the rubbing direction" than the reference could also be interpreted as meeting the limitation considering a broad interpretation of adjacent. As the limitation does not clearly define the claim as stating that one figure meets the limitation while the other clearly does not.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyachi 6211937.

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Regarding claims 1, Miyachi teaches a liquid crystal panel comprising: a driving substrate (see fig. 8); pixels (see fig. 8) on a surface of the driving substrate, each of the pixels including a pixel electrode (4) and a transistor (1) connected to the pixel electrode; signal lines (3) and scanning lines (2) connected to the transistor; an alignment film being rubbed in a substantially parallel (see element 6 and column 9 lines 1-16) to the signal lines; a counter substrate (not shown in figs see column 2 lines 55-60 while this refers to a first embodiment of the invention subsequent embodiments ie fig. 8 only change the positioning of the spacer and the counter substrate remains unchanged) provided adjacent to the alignment film; a liquid crystal layer provided between the driving substrate and the counter substrate; and at least one projection (5) in each pixel provided at a substantially central position relative to two opposite boundaries of the corresponding pixel, the two opposite boundaries being parallel to the rubbing direction and the central position being adjacent to a starting position of the rubbing direction and to a boundary not parallel to the rubbing direction.

Regarding claim 2, the projection in each pixel is provided at a position between the start and center in the rubbing direction, and excluding the center (see fig. 8).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim is 3 rejected under 35 U.S.C. 103(a) as being unpatentable over Miyachi in view of Miura et. al US Patent No. 5877836.

Regarding claim 3, Miyachi teaches all the limitations of claim 3 except, a pre-tilt angle of 4 to 20 degrees. Miura teaches a pretilt angle of 1-20 degrees and optimally 10-20 degrees to provide an effective optical modulation region in the display region of the liquid crystal display (see column 18 lines 19-25). The MPEP section 2411.05 [R-1] states: in the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to use a pretilt angle of 4-20 degrees to provide an effective optical modulation region in the display region.

Claim is 4 rejected under 35 U.S.C. 103(a) as being unpatentable over Miyachi in view of Sakamoto 6853421.

Regarding claim 4, Miyachi teaches all the limitations of claim 4 except, a reflective region and transmissive region provided in that order in the rubbing direction. Sakamoto discloses transflective displays, which were developed to gain benefits of lower power consumption of transmissive displays and secure visibility of independently of surrounding environments (see column 1 lines 43-58). Sakamoto discloses an arranging the reflection region over the TFT region to lower contact resistance between transmissive and reflection electrodes thereby providing a more accurately controlled voltage of the liquid crystal layer (see fig. 6 and column 11 lines 35-45). Since Miyachi's device applies a rubbing direction starting a gate line near the TFT toward another gate

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line than arranging the reflection region according to Sakamoto leads to an arrangement where the reflection region and transmissive region are provided in that order in rubbing direction. Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to apply a reflective region and transmissive region in that order in the rubbing direction to provide a low power consumption of displays which secures visibility of independently of surrounding environments and provide a more accurately controlled voltage of the liquid crystal layer.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miyachi in further view of Kaise et. al. US Patent No. 6788372.

Regarding claim 5, Miyachi discloses all the limitations of claim 5, except walls extending along borders in a direction substantially perpendicular to the rubbing direction. Kaise teaches walls (fig. 7 element 18) extending along borders in a direction of the gate line which is perpendicular to Miyachi's rubbing direction to provided to precisely adjust the gap between the substrates (see column 13 lines 7-5). Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to form walls extending along borders in a direction of the gate line to provided to precisely adjust the gap between the substrates.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562. The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phu Vu Examiner AU 2871

David Nelms Supervisory Patent Examiner Technology Center 2800